



# HGFβ (EGH2 4C12.1): sc-53478

## BACKGROUND

Hepatocyte growth factor, or HGF, is a pleiotropic growth factor variously designated as scatter factor, hematopoietin A and mammary growth factor. HGF is synthesized as a single chain, 728 amino acid precursor with a 29 amino acid signal peptide which is not present in the mature protein. Biologically active HGF is composed of a disulfide linked 69 kDa  $\alpha$  chain and a 34 kDa  $\beta$  chain, both of which are highly glycosylated. HGF exerts its biological effects through the HGF receptor, c-Met, which is expressed by normal hepatocytes, gastric and intestinal epithelium, ovarian and endometrial endothelium and in the basal layers of skin. While c-Met is not thought to be expressed in normal lung, thyroid or pancreatic tissue, c-Met has been detected in tumors originating from such tissue. The c-Met proto-oncogene encodes a 1408 amino acid glycoprotein that represents the prototypic member of a novel family of receptor tyrosine kinases (RTKs) that include Ron, Sea and Sex.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: HGF (human) mapping to 7q21.11.

## SOURCE

HGFβ (EGH2) is a mouse monoclonal antibody raised against recombinant human HGFβ.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

HGFβ (EGH2) is recommended for detection of HGFβ of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for HGF $\alpha$ / $\beta$  siRNA (h): sc-37111, HGF $\alpha$ / $\beta$  shRNA Plasmid (h): sc-37111-SH and HGF $\alpha$ / $\beta$  shRNA (h) Lentiviral Particles: sc-37111-V.

Molecular Weight of HGF precursor: 91 kDa.

Molecular Weight of HGF  $\alpha$  chain: 64 kDa.

Molecular Weight of HGF  $\beta$  chain: 34 kDa.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.